



Fig.24a

VH sequences

from combinatorial library:

	CDRI	CDR2	CDR3		
A	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x4
B	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x9
C	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
D	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
E	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
F	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
G	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
H	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3

from hierarchical library Vlt-rep x Ve-d:

	CDRI	CDR2	CDR3		
I	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x4
J	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x9
K	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
L	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
M	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
N	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
O	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
P	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
Q	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
R	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
S	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
T	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
U	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3
V	QVQLQSGDGLAEPGASVNHSCAKASGTTT	YINPSEGCTTHNQKFKD	KATLTADKSSSTA YHQLSSLTSED9AVTYCAR	WCGTTTVTVS9	x3



Fig.24b

Vx sequences

from combinatorial library:

from combinatorial library:									
	COR1	COR2	COR3						
a	DIELTOSPSLSASLGERVSLTC	WLOQKPGDSIKRLIY	AASLTLES	OVPAKFSGSRSGSGTYSULTISSLESDFADYYC	LOYASYPY	FGAGTKLEIKRA X3	V	ox-Jike	(SEQ ID NO. 236)
b	DIELTOSPAIHASPGCKVHTC	RASSV6ESYLH	DTSHLAS	OVPAKFSGSGGCTEYSLTSSVTAEDAAATTC	QOYSGYPLT	FGAGTKLEIKRA X3	IV	ox-Jike	(SEQ ID NO. 237)
c	DIELTOSPTTHAASPGCKITTC	SASSI6SNYLH	RTSHLAS	OVPAKFSGGSGCTSYSLTICTHAEADVATTC	QOQSSIPLT	FGAGTKLEIKRA X3	IV	ox-Jike	(SEQ ID NO. 238)
d	DIELTOSPTTHAASPGCKITTC	SASSI6SNYLH	RTSHLAS	OVPAKFSGGSGCTSYSLTICTHAEADVATTC	QOQSSIPLT	FGAGTKLEIKRA X3	IV	ox-Jike	(SEQ ID NO. 239)
e	DIELTOSPAIHASPGCKVHTC	SASSV6ESYLH	DTSHLAS	CVPTRFSGSGSGTYSULTISFHEAEDAAATTC	QOQSSYPPT	FGSOTKLEIKRA X4	VI	ox-Jike?	(SEQ ID NO. 240)
f	DIELTOSPAIHASPGCKVHTC	SASSV6ESYLH	DTSHLAS	CVPARFSGSGGCTSYSLTISFHEAEDAAATTC	QOQSSIPLT	FGAGTKLEIKRA	VI	WoxJ	(SEQ ID NO. 241)
g	DIELTOSPAIHASPGCKVHTC	SASSI6SNYLH	DTSHLAS	CVPANFSGSGGCTSYSLTISFHEAEDAAATTC	IQHNSYPMT	FGGOTKLEIKRA	VI	ox-Jike?	(SEQ ID NO. 242)

from hierarchical library VII-B x Vx:rep:

h	DIELTOSPAIHASPGCKVTHTC	SASSV6ESYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTISSNEAEDAATTC	QOYSGIPLT	FGACTKLEIKRA X4	IV/VI	WoxJ	(SEQ ID NO. 243)
i	DIELTOSPAIHASPGCKVTHTC	SASSV6ESYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTISSNEAEDAATTC	QOYSGIPLT	FGACTKLEIKRA	V	ox-Jike?	(SEQ ID NO. 244)
j	DIELTOSPTTHAASPGCKITITC	SASSI6SNYLH	RTSHLAS	GVPAKFSGSGSGTSGYSULTICTHEAEDVATTC	QOYSGIPLT	FGACTKLEIKRA	V	ox-Jike	(SEQ ID NO. 245)
k	DIELTOSPTTHAASPGCKITITC	SASSI6SNYLH	RTSHLAS	GVPAKFSGSGSGTSGYSULTICTHEAEDVATTC	QOYSGIPLT	FGACTKLEIKRA	V	ox-Jike	(SEQ ID NO. 246)
l	DIELTOSPTTHAASPGCKITITC	SASSI6SNYLH	RTSHLAS	GVPAKFSGSGSGTSGYSULTICTHEAEDVATTC	QOYSGIPLT	FGACTKLEIKRA	V	ox-Jike	(SEQ ID NO. 247)
m	DIELTOSPTTHAASPGCKITITC	SASSI6SNYLH	RTSHLAS	GVPAKFSGSGSGTSGYSULTICTHEAEDVATTC	QOYSGIPLT	FGACTKLEIKRA	V	ox-Jike	(SEQ ID NO. 248)
n	DIELTOSPTTHAASPGCKITITC	SASSI6SNYLH	RTSHLAS	GVPAKFSGSGSGTSGYSULTICTHEAEDVATTC	QOYSGIPLT	FGACTKLEIKRA	V	ox-Jike	(SEQ ID NO. 249)
o	DIELTOSPAIHASPGCKITITC	SASSI6SNYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTICTHEAEDVATTC	QOYSGIPLT	FGACTKLEIKRA X3	V	ox-Jike	(SEQ ID NO. 250)
p	DIELTOSPAIHASPGCKVTHTC	SASSV6ESYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTICTHEAEDVATTC	QOYSGIPLT	FGACTKLEIKRA X3	IV/VI	WoxJ	(SEQ ID NO. 251)
q	DIELTOSPAIHASPGCKVTHTC	SASSV6ESYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTISSNEAEDAATTC	QOYSGIPLT	FGACTKLEIKRA	IV/VI	WoxJ	(SEQ ID NO. 252)
r	DIELTOSPAIHASPGCKVTHTC	SASSV6ESYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTISSNEAEDAATTC	QOYSGIPLT	FGACTKLEIKRA	IV/VI	WoxJ	(SEQ ID NO. 253)
s	DIELTOSPAIHASPGCKVTHTC	SASSV6ESYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTISSNEAEDAATTC	QOYSGIPLT	FGACTKLEIKRA	IV/VI	ox-Jike	(SEQ ID NO. 254)
t	DIELTOSPAIHASPGCKVTHTC	SASSV6ESYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTISSNEAEDAATTC	QOYSGIPLT	FGACTKLEIKRA	IV/VI	ox-Jike	(SEQ ID NO. 255)
u	DIELTOSPAIHASPGCKVTHTC	SASSV6ESYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTISSNEAEDAATTC	QOYSGIPLT	FGACTKLEIKRA	IV/VI	ox-Jike	(SEQ ID NO. 256)
v	DIELTOSPAIHASPGCKVTHTC	SASSV6ESYLH	DTSKLAS	GVPAKFSGSGSGTSGYSULTISSNEAEDAATTC	QOYSGIPLT	FGACTKLEIKRA	IV/VI	ox-Jike	(SEQ ID NO. 257)
w	DIELTOSPTTHAASPGCKITITC	SASSI6SNYLH	RTSHLAS	GVPAKFSGSGSGTSGYSULTICTHEAEDVATTC	QOYSGIPLT	FGACTKLEIKRA X3	IV/VI	ox-Jike	(SEQ ID NO. 258)